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007999340 WPI Acc No: 89-264452/37

XRAM Acc No: C89-117356

Alkaline phosphatase bio-technological prodn. - using Bacillus

licheniformis 41P ZIMET 10911 Patent Assignee: (BIOT-) VE BIOTECHN BERLIN

Author (Inventor): KORN U; LEBENTRAU B

Number of Patents: 001

Patent Family:

CC Number Kind Date Week

DD_266710 890412 Α 8937 (Basic)

Priority Data (CC No Date): DD 251784 (830606)

Abstract (Basic): DD 266710

In a new process for the biotechnological prodn. of alkaline phosphatase, the strain Bacillus licheniformis 41p (ZIMET 10911; morphological and other characteristics given in the specification) is used.

The composition of the C-, N- and P-sources of the nutrient medium is pref. such that during the phase of intensive alkaline phosphatase accumulation the glucose content of the medium is 0%, the phosphate content is less than 7mM and the NH, concentration is not more than 30 mcg/ml. Glucose feeding is pref. carried out during the transitional phase. The fermentation medium is pref. subjected to intensive mixing and the fermentation is pref. carried out at 34-40

deg. C (esp. 37 deg. C).
USE/ADVANTAGE - Alkaline phosphatase is used in clinical diagnostics and in biological and molecular-biological research. High yields of a product with enzymatic activity as high as that of the product obtained from calf intestine. Unlike the E. coli previously used for alkaline phosphatase prodn., Bacillus licheniformus is toxicologically and pathologically harmless. @(9pp Dwg.No.0/0)@

Derwent Class: B04; D16;

Int Pat Class: C12N-009/16; C12R-001/10

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